



SEQUENCE LISTING

<110> Ching-Hsaing, Hsu
Cheng, Winston T. K.

<120> ALLERGEN-CONTAINING MILK FOR ALLERGY
TREATMENT

<130> 12774-303001

<140> 69/877,160

<141> 2001-06-08

<160> 10

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 132

<212> PRT

<213> Dermatophagoides pteronyssinus

<400> 1

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Val	Ser	Gly	Glu	Asp	Lys	Lys	His	Asp	Tyr	Gln	Asn	Glu	Phe	Asp	Phe
		20						25				30			
Leu	Leu	Met	Glu	Arg	Ile	His	Glu	Gln	Ile	Lys	Lys	Gly	Glu	Leu	Ala
		35				40						45			
Leu	Phe	Tyr	Leu	Gln	Glu	Gln	Ile	Asn	His	Phe	Glu	Glu	Lys	Pro	Thr
	50					55					60				
Lys	Glu	Met	Lys	Asp	Lys	Ile	Val	Ala	Glu	Met	Asp	Thr	Ile	Ile	Ala
65				70					75					80	
Met	Ile	Asp	Gly	Val	Arg	Gly	Val	Leu	Asp	Arg	Leu	Met	Gln	Arg	Lys
		85						90					95		
Asp	Ile	Asp	Ile	Phe	Glu	Gln	Tyr	Asn	Leu	Glu	Met	Leu	Lys	Lys	Ser
	100							105					110		
Gly	Asp	Ile	Leu	Glu	Arg	Asp	Leu	Lys	Lys	Glu	Glu	Ala	Arg	Val	Lys
	115						120					125			
Asn	Ile	Glu	Val												
	130														

<210> 2

<211> 320

<212> PRT

<213> Dermatophagoides pteronyssinus

<400> 2

Met	Lys	Ile	Val	Leu	Ala	Ile	Ala	Ser	Leu	Leu	Ala	Leu	Ser	Ala	Val
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Tyr	Ala	Arg	Pro	Ser	Ser	Ile	Lys	Thr	Phe	Glu	Glu	Tyr	Lys	Lys	Ala
	20							25				30			
Phe	Asn	Lys	Ser	Tyr	Ala	Thr	Phe	Glu	Asp	Glu	Glu	Ala	Ala	Arg	Lys
	35					40						45			
Asn	Phe	Leu	Glu	Ser	Val	Lys	Tyr	Val	Gln	Ser	Asn	Gly	Gly	Ala	Ile
	50					55						60			

Asn	His	Leu	Ser	Asp	Leu	Ser	Leu	Asp	Glu	Phe	Lys	Asn	Arg	Phe	Leu
65					70					75					80
Met	Ser	Ala	Glu	Ala	Phe	Glu	His	Leu	Lys	Thr	Gln	Phe	Asp	Leu	Asn
				85					90					95	
Ala	Glu	Thr	Asn	Ala	Cys	Ser	Ile	Asn	Gly	Asn	Ala	Pro	Ala	Glu	Ile
			100					105					110		
Asp	Leu	Arg	Gln	Met	Arg	Thr	Val	Thr	Pro	Ile	Arg	Met	Gln	Gly	Gly
		115				120						125			
Cys	Gly	Ser	Cys	Trp	Ala	Phe	Ser	Gly	Val	Ala	Ala	Thr	Gln	Ser	Ala
	130				135					140					
Tyr	Leu	Ala	Tyr	Arg	Asn	Gln	Ser	Leu	Asp	Leu	Ala	Glu	Gln	Glu	Leu
145					150					155					160
Val	Asp	Cys	Ala	Ser	Gln	His	Gly	Cys	His	Gly	Asp	Thr	Ile	Pro	Arg
			165						170						175
Gly	Ile	Glu	Tyr	Ile	Gln	His	Asn	Gly	Val	Val	Gln	Glu	Ser	Tyr	Tyr
		180						185					190		
Arg	Tyr	Val	Ala	Arg	Glu	Gln	Ser	Cys	Arg	Arg	Pro	Asn	Ala	Gln	Arg
	195						200					205			
Phe	Gly	Ile	Ser	Asn	Tyr	Cys	Gln	Ile	Tyr	Pro	Pro	Asn	Val	Asn	Lys
	210					215					220				
Ile	Arg	Glu	Ala	Leu	Ala	Gln	Thr	His	Ser	Ala	Ile	Ala	Val	Ile	Ile
225					230					235					240
Gly	Ile	Lys	Asp	Leu	Asp	Ala	Phe	Arg	His	Tyr	Asp	Gly	Arg	Thr	Ile
			245					250						255	
Ile	Gln	Arg	Asp	Asn	Gly	Tyr	Gln	Pro	Asn	Tyr	His	Ala	Val	Asn	Ile
		260					265						270		
Val	Gly	Tyr	Ser	Asn	Ala	Gln	Gly	Val	Asp	Tyr	Trp	Ile	Val	Arg	Asn
	275					280						285			
Ser	Trp	Asp	Thr	Asn	Trp	Gly	Asp	Asn	Gly	Tyr	Gly	Tyr	Phe	Ala	Ala
	290					295					300				
Asn	Ile	Asp	Leu	Met	Met	Ile	Glu	Glu	Tyr	Pro	Tyr	Val	Val	Ile	Leu
305				310						315					320

(210) 3

(211) 146

(212) 3RT

(213) Dermatophagoides pteronyssinus

(400) 3

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Arg	Asp	Gln	Val	Asp	Val	Lys	Asp	Cys	Ala	Asn	His	Glu	Ile	Lys
		20					25					30		
Val	Leu	Val	Pro	Gly	Cys	His	Gly	Ser	Glu	Pro	Cys	Ile	Ile	His
	35					40						45		
Gly	Lys	Pro	Phe	Gln	Leu	Glu	Ala	Val	Phe	Glu	Ala	Asn	Gln	Asn
	50					55				60				
Lys	Thr	Ala	Lys	Ile	Glu	Ile	Lys	Ala	Ser	Ile	Asp	Gly	Leu	Glu
65				70					75					80
Asp	Val	Pro	Gly	Ile	Asp	Pro	Asn	Ala	Cys	His	Tyr	Met	Lys	Cys
			85					90					95	
Leu	Val	Lys	Gly	Gln	Gln	Tyr	Asp	Ile	Lys	Tyr	Thr	Trp	Asn	Val
	100						105					110		
Lys	Ile	Ala	Pro	Lys	Ser	Gln	Asn	Val	Val	Val	Thr	Val	Lys	Val
	115						120					125		
Gly	Asp	Asp	Gly	Val	Leu	Ala	Cys	Ala	Ile	Ala	Thr	His	Ala	Lys
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Arg Asp
148

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<213> Artificial Sequence

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taggttagaa tggattcag t

21

<210> 5
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<212> DNA
<213> Artificial Sequence

<220>
<223> oligonucleotide for PCR

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taggttagc ctgggtggca t

21

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> oligonucleotide for PCR

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gctgagcat gaaattcatt

20

<210> 7
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> oligonucleotide for PCR

<400> 7
attcgagtga tgaaggcaac aag

23

<210> 8
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> oligonucleotide for PCR

<400> 8
ctatttgta atctctctt t

20

<210> 9
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<220>
 <223> oligonucleotide for PCR

<400> 9
 actcgagtga tgaaggcaag aag

23

<210> 10
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 <212> DNA
 <213> Dermatophagoides pteronyssinus

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 c atg aaa ttc atc att gct ttc ttt gtt gcc act ttg gca gtt atg act
 Met Lys Phe Ile Ile Ala Phe Phe Val Ala Thr Leu Ala Val Met Thr
 1 5 10 15

60
109

gtt tca ggt gaa gat aaa aaa cat gat tat caa aat gaa ttt gat ttc
 Val Ser Gly Glu Asp Lys Lys His Asp Tyr Gln Asn Glu Phe Asp Phe
 20 25 30

157

tta ttg atg gaa cgt att cat gaa caa att aaa aaa ggt gaa ctt gca
 Leu Leu Met Glu Arg Ile His Glu Gln Ile Lys Lys Gly Glu Leu Ala
 35 40 45

205

ttg ttc tat ctt caa gaa cag att aat cat ttt gaa gaa aaa cca aca
 Leu Phe Tyr Leu Gln Glu Gln Ile Asn His Phe Glu Glu Lys Pro Thr
 50 55 60

253

aaa gaa atg aaa gat aaa att gta gcc gaa atg gat acg att att gct
 Lys Glu Met Lys Asp Lys Ile Val Ala Glu Met Asp Thr Ile Ile Ala
 65 70 75 80

301

atg atc gat ggt gta cgt ggt gta ctt gat cgt ctt atg caa cgt aaa
 Met Ile Asp Gly Val Arg Gly Val Leu Asp Arg Leu Met Gln Arg Lys
 85 90 95

349

gat tta gat att ttc gaa caa tat aat ctt gaa atg ctc aaa aaa tct
 Asp Leu Asp Ile Phe Glu Gln Tyr Asn Leu Glu Met Leu Lys Lys Ser
 100 105 110

397

ggt gat att ttg gaa cgt gat ttg aaa aaa gaa gaa gca cgt att aaa
 Gly Asp Ile Leu Gln Arg Asp Leu Lys Lys Glu Glu Ala Arg Val Lys
 115 120 125

445

aat att gaa gtt aaattttaa ttcagatctc ttaacaaata ttcagacttg
 Asn Ile Glu Val

497

130

attogtgaca atatgggyoo gtgatatota ogtatgatoa gootogactg tquottottg
ttgotticat oactogasto tagagggooo gtttaasdr gotgatcago otagactgtg
ottota

557
617
624